

Notice of Allowability

Application No.

09/723,816

Examiner

Judson H. Jones

Applicant(s)

HOBSON ET AL.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 6/24/2003.
2. ☒ The allowed claim(s) is/are 19-72.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 09/196,274.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☒ to Paper No. 0402.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DETAILED ACTION***Allowable Subject Matter***

Claims 19-72 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose or teach an electric machine including a magnet and a support capable of motion relative to the magnet, the support have conductive paths with a current carrying portion that extends in a circumferential aspect relative to a center of the support as recited in claims 19, 39, 68 and 70. In regard to claim 57, the prior art of record does not disclose or teach an inductive generator where the relatively movable member of the generator moves in two dimensions of a plane. In regard to claim 65, the prior art of record does not disclose or teach a support mounted for motion in two dimensions in a plane, a magnet defining an air gap, and short circuited electrical path segments wherein forces created by currents and magnetic flux do not lie along a common line. While Hollis, Jr. discloses a support mounted for motion in two dimensions, Hollis Jr. does not disclose short circuited windings. Short circuited windings are used in inductance or reluctance motors, but combining the short circuited windings of such a motor with Hollis, Jr. would not have been obvious to a person of ordinary skill in the art. The prior art of record does not disclose or teach a support capable of non-rotary motion in at least two dimensions in a first plane and motion in a second plane where the planes are not parallel and where the support has two conductive paths in a plane parallel with the first plane and two conductive paths in a plane parallel to the second plane as recited in claim 66. The prior art of record does not disclose or teach a movable support having first and second sets of conductors, each set having two or more segments lying in non-parallel respective planes as recited in claim

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67. The prior art of record does not disclose or teach each conductive path having a segment lying in a plane substantially perpendicular to a plane of support in combination with the other limitations of claim 71. In regard to claim 72, the prior art of record does not disclose or teach a support movable relative to magnets where the support has conductive paths with a segment lying in a common first plane and the support has conductive paths each path having a segment lying in a plane not parallel to the first plane and force is produced by interaction of current flowing through the segments and lines of magnetic flux to produce thrust forces corresponding to the planes of the different segments.

Drawings

The amended drawings received 10/22/2002 are accepted by the examiner. These drawings included proposed changes to figures 2, 3, 4 and 7 with formal drawings including those changes. At this point, formal drawings of figures 10 and 11 are still necessary.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H Jones whose telephone number is 703-308-0115. The examiner can normally be reached on 8-4:30 M-F.

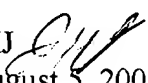
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JHJ


August 5, 2003

